

JOHN WENTZ

# Repairs list for Springfield Bell

August 12, 2011

230/240V 3φ

- 1) Backwash pump flow meter needs repair or replaced  
(does not read correctly/ sometimes not at all)  
*SPEC on Pump 120 gpm. 40' TSH. Panel dial indicator 0-180 gpm (17-17.5 psi)*
- 2) Backwash pump flow rate needs to be checked, pump may need replacement.  
(pump needs to maintain 120gpm to backwash vessels)
- 3) Influent pump (P1) breaker box needs to be replaced.  
(breaker will not stay engaged even a proper amperage)
- 4) Influent pump wiring system needs to be checked ( P1) at the back of trailer.  
(float system and wiring for influent pump to surge tank does not function properly)
- 5) Backup influent pump needs repair. ( Does not turn when powered up)
- 6) Surge tank valve and piping to boost pump needs to be replaced.  
(threads on piping and valve are corroded, unable to thread new fittings in properly)
- 7) Effluent flow meter & totalizer do not function properly.

Additional Items Consolidated from June 2011 sheet (next page)

Boost pump appeared to have a new motor.

It was not connected & there were no fittings.

Lag vessel lid - PVC outlet broken - appears to have been replaced 4-3-12  
Several gauges broken, not functioning

Check for leak & function during pump tests.

Check all vessels -

• Water removed

• Filter media removed

• Scale, corrosion checked. removed.

By operators on EQ start-  
BEFORE filling for  
Pump TESTS.

W. Objective.

- Based on SRD Agreement, will Belle work & will additional  
Ancillary eqpt be needed.
- Look @ repair list.

## Issues Encountered in Springfield Belle Start-up

June 2011

ER was tasked to start-up the Springfield Belle water treatment unit in June 2011 for the Capco Tank Battery site in Willow Hill, Illinois. The unit was dispatched from Hammond, Indiana to the Capco site on June 23, 2011. ER began working on the unit on June 27, 2011. The logbook shows that the last project was Ingersoll Rand on June 7, 2007, suggesting that the unit has been in storage for 4 years.

The following issues were encountered during start-up:

- ✓ 1) The logbook states that the lag filter was taken off-line because carbon was found to be leaching into the final effluent. The log book does not state that this problem was fixed. It was confirmed on June 29, 2011 that the diffuser at the bottom of this unit was replaced.
- ✓ 2) The surge tank was left with 100+ gallons of a water/sludge mixture that needed to be pumped, vacuumed and pressure washed.
- ✓ 3) The boost pump appeared to have a new motor but it was not hooked up and there were no fittings.
- ✓ 4) The sock filters were full of water and contained dirty bags. The housings were corroded since water was left in them and needed to be wire brushed.
- 5) The lag vessel lid was not bolted down and fell off during transit. The PVC outlet broke when it fell off and hit the floor of the trailer.
- 6) The 'Little Belle' parts and supply trailer was not organized.
- 7) Several gauges were broken and not functional.
- ✓ 8) The floats controlling the pump to the surge tank were cracked and not functional.